

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 9044 (1979): Method of Measuring Thickness of Mica Blocks, Thins, Films and Splittings [ETD 2: Solid Electrical Insulating Materials and Insulation Systems]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 9044 - 1979

Indian Standard

METHOD OF MEASURING THICKNESS
OF MICA BLOCKS, THINS, FILMS
AND SPLITTINGS

UDC 553.677:531.717.11



© Copyright 1979

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Price Rs 5.00 Gr 1

June 1979

Indian Standard

METHOD OF MEASURING THICKNESS OF MICA BLOCKS, THINS, FILMS AND SPLITTINGS

Mica Sectional Committee, ETDC 9

Chairman

SHRI S. N. PURI

Representing

Geological Survey of India, Calcutta

Members

SHRI S. P. BHADANI

Chatturam Horilram Pvt Ltd, P.O. Jhumri-Telaiya
(Bihar)

SHRI GOPI KRISHNA BHADANI
(Alternate)

SHRI BASUDEV BHARATIA

Bihar Mica Exporters Association, Bihar

SHRI N. S. CHAKRABORTY (Alternate)

CHAIRMAN, BIHAR MICA SYNDICATE

Government of Bihar

CONTROLLER

Indian Bureau of Mines, Nagpur

SHRI S. K. DASGUPTA (Alternate)

SHRI G. C. DE

Export Inspection Council of India, Calcutta

SHRI P. P. SAXENA (Alternate)

DEPUTY GENERAL MANAGER

Chrestien Mica Industries Limited, Domchanch
(Bihar)

SHRI D. GUPTA

The Mica Trading Corporation of India Ltd,
Patna

SHRI SHANKAR PRASAD

Seth Pusalal Mansinghka Pvt Ltd, Bhilwara
(Rajasthan)

MANSINGHKA

SHRI P. KOTA REDDY

Madras Mica Association, Gudur (Andhra)

SHRI C. V. KRISHNAIAH (Alternate)

SHRI S. B. ROY

Central Glass and Ceramic Research Institute
(CSIR), Calcutta

DR S. MANDAL (Alternate)

SHRI KISTO KUMAR SAHA

Peak Electronics Pvt Ltd, Calcutta

SHRI A. K. CHOWDHURY (Alternate)

SHRI BISHWAJIT SHARMA

Kodarma Mica Mining Association, Jhumri-Telaiya
(Bihar)

SHRI UMESH CHANDRA AGRAWALA
(Alternate)

(Continued on page 2)

© Copyright 1979

INDIAN STANDARDS INSTITUTION

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

(Continued from page 1)

<i>Members</i>	<i>Representing</i>
SHRI SUMAN KUMAR SHARMA	Sharma Mica Co, Giridih (Bihar)
SHRI RAJ KUMAR SHARMA (<i>Alternate</i>)	
SHRI U. S. VERMA	National Test House, Calcutta
SHRI OM WADHWA	J. V. Electronics Ltd, New Delhi
SHRI S. P. SACHDEV,	Director General, ISI (<i>Ex-officio Member</i>)
Director (Elec tech) (<i>Secretary</i>)	

Indian Standard

METHOD OF MEASURING THICKNESS OF MICA BLOCKS, THINS, FILMS AND SPLITTINGS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 12 January 1979, after the draft finalized by the Mica Sectional Committee had been approved by the Electrotechnical Division Council.

0.2 This Indian Standard prescribes the method of measuring the thickness of mica in the form of blocks, thins, films and splittings. While this standard specifies use of dial type micrometer for measuring the thickness of mica and the method of its calibration, it is not intended to exclude use of measuring equipment. Or methods of calibration, such as electronic gauges and light beam gauges, which could give comparable or better results. It is intended to incorporate standard techniques of 'fast gauging' as is now increasingly in vogue, at a later stage when sufficient information is available.

0.3 While preparing this standard, assistance has been derived from ISO 5972-1978 'Mica blocks, thins, films and splittings — Measurement of thickness', issued by the International Organization for Standardization.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS:2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard lays down the method of measuring thickness of mica in the form of blocks, thins, films and splittings.

*Rules for rounding off numerical values (*revised*).

2. METHOD OF MEASUREMENT

2.1 Apparatus

2.1.1 The apparatus required (*see also 0.2*) shall be a constant-force micrometer of dial type with circular plunger of 6 mm diameter. It shall be capable of exerting a pressure of 10^5 Pa during the measurement.

2.1.2 The measuring error of the micrometer shall not exceed 0.005 mm. However, for measuring the thickness of a single splitting, the apparatus used shall have a better accuracy.

NOTE 1 — The accuracy of the micrometer shall be checked with a set of slip gauges.

NOTE 2 — It is permissible to use a micrometer with ratchet having a plunger of 6 mm diameter. However, in case of a dispute, micrometer as specified in 2.1 shall be used.

3. PROCEDURE

3.1 One measurement of thickness for every 10 cm^2 of the surface of the sample shall be carried out. For surfaces less than or equal to 10 cm^2 , a single measurement is considered adequate.

4. EXPRESSION OF RESULTS

4.1 The arithmetic mean of the measurements carried out as specified in 3 shall be taken as the thickness of the sample.